1

8

20

30

41

52

60

75

86

94

102

Canadian Journal of Zoology

Contents Volume 82, 2004

Revue canadienne de zoologie

Sommaire Volume 82, 2004

January / Janvier

ARTICLES / ARTICLES

Stéphanie M. Doucet, Stephen M. Yezerinac, and Robert Montgomerie	Do female zebra finches (Taeniopygia guttata)
copy each other's mate preferences?	

Heather M. Pettis, Rosalind M. Rolland, Philip K. Hamilton, Solange Brault, Amy R. Knowlton, and Scott D. Kraus Visual health assessment of North Atlantic right whales (Eubalaena glacialis) using photographs

Bruce W. Robson, Michael E. Goebel, Jason D. Baker, Rolf R. Ream, Thomas R. Loughlin, Robert C. Francis, George A. Antonelis, and Daniel P. Costa Separation of foraging habitat among breeding sites of a colonial marine predator, the northern fur seal (Callorhinus ursinus)

Maryanne R. Hughes and Darin C. Bennett Effects of saline intake, sex, and season on Pekin duck osmoregulatory organ masses and comparison with wild Mallards

Emilio Virgós, Julián G. Mangas, José Antonio Blanco-Aguiar, Germán Garrote, Nuria Almagro, and Raquel P. Viso Food habits of European badgers (*Meles meles*) along an altitudinal gradient of Mediterranean environments: a field test of the earthworm specialization hypothesis

Anna L. Birmingham and Mark L. Winston Orientation and drifting behaviour of bumblebees (Hymenoptera: Apidae) in commercial tomato greenhouses

Adolfo Marco, Carmen Díaz-Paniagua, and Judit Hidalgo-Vila Influence of egg aggregation and soil moisture on incubation of flexible-shelled lacertid lizard eggs

Rebecca A. Jeffery, Murray W. Lankester, Mike J. McGrath, and Hugh G. Whitney Angiostrongylus vasorum and Crenosoma vulpis in red foxes (Vulpes vulpes) in Newfoundland, Canada

S.M. Gende and T.P. Quinn The relative importance of prey density and social dominance in determining energy intake by bears feeding on Pacific salmon

V. Bantseev, K.L. Moran, D.G. Dixon, J.R. Trevithick, and J.G. Sivak Optical properties, mitochondria, and sutures of lenses of fishes: a comparative study of nine species

M. Öz, A. Erdoğan, Y. Kaska, S. Düşen, A. Aslan, H. Sert, M. Yavuz, and M.R. Tunç Nest temperatures and sex-ratio estimates of loggerhead turtles at Patara beach on the southwestern coast of Turkey

Michael S. Finkler, Anthony C. Steyermark, and Kate E. Jenks Geographic variation in snapping turtle (Chelydra serpentina serpentina) egg components across a longitudinal transect

Karl Vernes, Shauna Blois, and Felix Bärlocher Seasonal and yearly changes in consumption of hypogeous fungi by northern flying squirrels and red squirrels in old-growth forest, New Brunswick

Sean F. Werle, Ed Klekowski, and Douglas G. Smith Inversion polymorphism in a Connecticut River Axarus species (Diptera: Chironomidae): biometric effects of a triple inversion heterozygote 118

Laurence Packer Morphological variation in the gastral sterna of female Apoidea (Insecta: Hymenoptera) 130

S. Roques, C. Díaz-Paniagua, and A.C. Andreu Microsatellite markers reveal multiple paternity and sperm storage in the Mediterranean spur-thighed tortoise, *Testudo graeca* 153

Instructions to Authors

February / Février

Biology of neglected groups: Platyhelminthes / Biologie des groupes négligés : Platyhelminthes

INTRODUCTION / INTRODUCTION

Recommendations aux auteurs

Rodney A. Webb Studies on platyhelminths: yesterday, today, and tomorrow

161

R-1

REVIEWS / SYNTHÈSES	
Jaume Baguñà and Marta Riutort Molecular phylogeny of the Platyhelminthes	168
Seth Tyler and Matthew Hooge Comparative morphology of the body wall in flatworms (Platyhelminthes)	194
John P. Dalton, Patrick Skelly, and David W. Halton Role of the tegument and gut in nutrient uptake by parasitic platyhelminths	211
D. Piedrafita, H.W. Raadsma, R. Prowse, and T.W. Spithill Immunology of the host-parasite relationship in fasciolosis (Fasciola hepatica and Fasciola gigantica)	233
Anne E. Lockyer, Catherine S. Jones, Leslie R. Noble, and David Rollinson Trematodes and snails: an intimate association	251
R.C. Tinsley Platyhelminth parasite reproduction: some general principles derived from monogeneans	270
M.V.K. Sukhdeo and S.C. Sukhdeo Trematode behaviours and the perceptual worlds of parasites	292
D.W. Halton and A.G. Maule Flatworm nerve-muscle: structural and functional analysis	316
Maria Reuter and Natalia Kreshchenko Flatworm asexual multiplication implicates stem cells and regeneration	334
Philip T. LoVerde, Edward G. Niles, Ahmed Osman, and Wenjie Wu Schistosoma mansoni male-female interactions	357
Guilherme Oliveira, Nilton B. Rodrigues, Alvaro J. Romanha, and Diana Bahia Genome and genomics of schistosomes	375
March / Mars	
ARTICLES / ARTICLES	
Martin Arvisais, Esther Lévesque, Jean-Claude Bourgeois, Claude Daigle, Denis Masse, and Jacques Jutras Habitat selection by the wood turtle (<i>Clemmys insculpta</i>) at the northern limit of its range	391
M. Kéry and L. Juillerat Sex ratio estimation and survival analysis for Orthetrum coerulescens (Odonata, Libellulidae)	399
Angélique Dupuch, Pierre Magnan, and Lawrence M. Dill Sensitivity of northern redbelly dace, <i>Phoxinus eos</i> , to chemical alarm cues	407
Anders Jarnemo, Olof Liberg, Steffan Lockowandt, Agneta Olsson, and Kjell Wahlström Predation by red fox on European roe deer fawns in relation to age, sex, and birth date	416
Kim G. Poole, Aswea D. Porter, Andrew de Vries, Chris Maundrell, Scott D. Grindal, and Colleen Cassady St. Clair Suitability of a young deciduous-dominated forest for American marten and the effects of forest removal	423
S. Merino, M.C. Blázquez, J. Martínez, and R. Rodríguez-Estrella Stress protein expression is related to tail loss in two species of iguanid lizards	436
Dave Shutler, Adele Mullie, and Robert G. Clark Tree swallow reproductive investment, stress, and parasites	442
Gabriel Blouin-Demers, Patrick J. Weatherhead, and Jeffrey R. Row Phenotypic consequences of nest-site selection in black rat snakes (Elaphe obsoleta)	449
Brian L. Bingham, Kehaulani Giles, and William B. Jaeckle Variability in broods of the seastar Leptasterias aequalis	457
Zvika Abramsky, Michael L. Rosenzweig, Jonathan Belmaker, and Avihad Bar The impact of long-term continuous risk of predation on two species of gerbils	464
Samuel K. Wasser, Barbara Davenport, Elizabeth R. Ramage, Kathleen E. Hunt, Margaret Parker, Christine Clarke, and Gordon Stenhouse Scat detection dogs in wildlife research and management: application to grizzly and black bears	477
in the Yellowhead Ecosystem, Alberta, Canada	475
Laura A. Felicetti, Charles C. Schwartz, Robert O. Rye, Kerry A. Gunther, James G. Crock, Mark A. Haroldson, Lisette Waits, and Charles T. Robbins Use of naturally occurring mercury to determine the importance of cutthroat trout to Yellowstone grizzly bears	493
Travis L. DeVault, I. Lehr Brisbin, Jr., and Olin E. Rhodes, Jr. Factors influencing the acquisition of rodent carrion by vertebrate scavengers and decomposers	502
Carlos Cabido, Adega Gonzalo, Pedro Galán, José Martín, and Pilar López Chemosensory predator recognition induces defensive behavior in the slow-worm (Anguis fragilis)	510
Fritz Trillmich, Cornelia Kraus, Joachim Künkele, Matthias Asher, Mario Clara, Gabriele Dekomien, Jörg T. Epplen, Alvaro Saralegui, and Norbert Sachser Species-level differentiation of two cryptic species pairs of wild cavies, genera Cavia and Galea, with a discussion of the relationship between social systems and phylogeny in the Cavinnae	516
NOTES / NOTES	
David Lasenby and Youqing Shi Changes in the elemental composition of the stomach contents of the opossum shrimp	202
Mysis relicta during diel vertical migration Cassandra Guignion and James H. Fullard A potential cost of responding to bats for moths flying over water	525 529
a second	OMI

576

April / Avril

ARTICLES / ARTICLES

- Shawn Morrison, Luc Barton, Peter Caputa, and David S. Hik Forage selection by collared pikas, Ochotona collaris, under varying degrees of predation risk 533
- Cynthia D. Anderson, Daniel D. Roby, and Ken Collis Foraging patterns of male and female Double-crested Cormorants nesting in the Columbia River estuary 541
- Jennie R. Christensen, Bruce D. Pauli, John S. Richardson, Christine A. Bishop, and John Elliott Effects of pH and dilution on African clawed frog (*Xenopus laevis*) sperm motility 555
- Karen Holder, Robert Montgomerie, and Vicki L. Friesen Genetic diversity and management of Nearctic rock ptarmigan (Lagopus mutus) 564
- Hervé Bocherens, Alain Argant, Jacqueline Argant, Daniel Billiou, Evelyne Crégut-Bonnoure, Bernadette Donat-Ayache, Michel Philippe, and Michel Thinon Diet reconstruction of ancient brown bears (*Ursus arctos*) from Mont Ventoux (France) using bone collagen stable isotope biogeochemistry (¹³C, ¹⁵N)
- Robert J. Gegear and Terence M. Laverty Effect of a colour dimorphism on the flower constancy of honey bees and bumble bees 587
- Stephen A. Dinkelacker, Jon P. Costanzo, John B. Iverson, and Richard E. Lee, Jr. Cold-hardiness and dehydration resistance of hatchling Blanding's turtles (*Emydoidea blandingii*): implications for overwintering in a terrestrial habitat 594
- Michael F. Cameron and Donald B. Siniff Age-specific survival, abundance, and immigration rates of a Weddell seal (Leptonychotes weddellii) population in McMurdo Sound, Antarctica 601
- Hannah M. ter Hofstede, M. Brock Fenton, and John O. Whitaker, Jr. Host and host-site specificity of bat flies (Diptera: Streblidae and Nycteribiidae) on Neotropical bats (Chiroptera) 616
- Marlene Zuk, Leigh W. Simmons, John T. Rotenberry, and Andrew M. Stoehr
 Sex differences in immunity in two
 species of field crickets
 627
- Benjamin Ernest François Gourbal and Claude Gabrion A study of mate choice in mice with experimental *Taenia*crassiceps cysticercosis: can males choose?

 635
- Kyle H. Elliott, Miyako Hewett, Gary W. Kaiser, and Robert W. Blake Flight energetics of the Marbled Murrelet,

 Brachyramphus marmoratus 644
- Dirk Johannes Mikolajewski, Frank Johansson, and Tomas Brodin Condition-dependent behaviour among damselfly populations 653
- Gudrun Geisbauer, Ulrike Griebel, Axel Schmid, and Brian Timney Brightness discrimination and neutral point testing in the horse 660

NOTE / NOTE

François Potvin and Barry Boots Winter habitat selection by white-tailed deer on Anticosti Island 2: relationship between deer density from an aerial survey and the proportion of balsam fir forest on vegetation maps 671

May / Mai

ARTICLES / ARTICLES

- Marco A. Lardies, Tamara P. Catalán, and Francisco Bozinovic Metabolism and life-history correlates in a lowland and highland population of a terrestrial isopod
- Robert M.R. Barclay, Joel Ulmer, Cameron J.A. MacKenzie, Megan S. Thompson, Leif Olson, Julianne McCool,
 Elvie Cropley, and Graeme Poll Variation in the reproductive rate of bats
 688
- Taryn D. McPherson, Reehan S. Mirza, and Greg G. Pyle Responses of wild fishes to alarm chemicals in pristine and metal-contaminated lakes 694
- Christopher N. Taylor, Kerri L. Oseen, and Richard J. Wassersug On the behavioural response of *Rana* and *Bufo* tadpoles to echinostomatoid cercariae: implications to synergistic factors influencing trematode infections in anurans

 701
- Ryan J. Fisher, Ray G. Poulin, L. Danielle Todd, and R.M. Brigham Nest stage, wind speed, and air temperature affect the nest defence behaviours of burrowing owls
- the nest defence behaviours of burrowing owls

 P. Świątek, M. Vogelgesang, M. Romek, and J. Klag Germ-line versus somatic cells. I. Stereological study of
- differentiating embryonic tissues of *Tetrodontophora bielanensis* (Hexapoda, Collembola)

 714

 F.J. Aznar, H.L. Cappozzo, D. Taddeo, F.E. Montero, and J.A. Raga Recruitment, population structure, and habitat
- selection of *Corynosoma australe* (Acanthocephala) in South American fur seals, *Arctocephalus australis*, from Uruguay **Kevin J. McGraw and Geoffrey E. Hill** Plumage color as a dynamic trait: carotenoid pigmentation of male house finches (*Carpodacus mexicanus*) fades during the breeding season

677

726

734

Kristy L. Hogsden and T.C. Hutchinson Butterfly assemblages along a human disturbance gradient in Ontario, Canada	739
Ian D. Hogg and Paul D.N. Hebert Biological identification of springtails (Hexapoda: Collembola) from the Canadian Arctic, using mitochondrial DNA barcodes	749
Sonia Altizer, Andrew K. Davis, Katherine C. Cook, and John J. Cherry Age, sex, and season affect the risk of mycoplasmal conjunctivitis in a southeastern house finch population	755
Katharina Misof Diurnal cycle of Isospora spp. oocyst shedding in Eurasian blackbirds (Turdus merula)	764
Isabelle Charrier, Laurie L. Bloomfield, and Christopher B. Sturdy Note types and coding in parid vocalizations. I: The chick-a-dee call of the black-capped chickadee (<i>Poecile atricapillus</i>)	769
Laurie L. Bloomfield, Isabelle Charrier, and Christopher B. Sturdy Note types and coding in parid vocalizations. II: The chick-a-dee call of the mountain chickadee (<i>Poecile gambeli</i>)	780
A.P. Wintzer and P.J. Motta The effects of temperature on prey-capture kinematics of the bluegill (<i>Lepomis macrochirus</i>): implications for feeding studies	794
Christy A. Morrissey Effect of altitudinal migration within a watershed on the reproductive success of American dippers	800
Mike Spironello and Fiona F. Hunter An intra- and inter-island study of the polytene chromosomes of Simulium exasperans (Diptera: Simuliidae)	808
Pamela L. Rutherford Proximate mechanisms that contribute to female-biased sexual size dimorphism in an anguid lizard	817
NOTES / NOTES	
Jennifer C. Perry, Edward B. Mondor, and John F. Addicott An indirect mutualism: ants deter seed predators from ovipositing in yucca fruit	823
Pamela M. Willis, Bernard J. Crespi, Lawrence M. Dill, Robin W. Baird, and M. Bradley Hanson Natural hybridization between Dall's porpoises (<i>Phocoenoides dalli</i>) and harbour porpoises (<i>Phocoena phocoena</i>)	828
June / Juin	
ARTICLES / ARTICLES	
Jordi Figuerola, Andy J. Green, Katrina Black, and Beth Okamura Influence of gut morphology on passive transport of freshwater bryozoans by waterfowl in Doñana (southwestern Spain)	835
Xavier Ducarme, Georges Wauthy, Henri M. André, and Philippe Lebrun Survey of mites in caves and deep soil and evolution of mites in these habitats	841
A. Townsend Peterson, Enrique Martínez-Meyer, Constantino González-Salazar, and Peter W. Hall Modeled climate change effects on distributions of Canadian butterfly species	851
Thierry Frétey, Emmanuelle Cam, Bernard Le Garff, and Jean-Yves Monnat Adult survival and temporary emigration in the common toad	859
D. Renault, P. Vernon, and G. Vannier Comparing the freezing susceptibility of third-instar larvae of Gnorimus variabilis (Cetoniidae: Trichiinae) from three distant geographical regions	873
J. Bosch and I. De la Riva Are frog calls modulated by the environment? An analysis with anuran species from Bolivia	880
James C. Stegen, C.M. Gienger, and Lixing Sun The control of color change in the Pacific tree frog, Hyla regilla	889
Luisa Amo, Pilar López, and José Martín Trade-offs in the choice of refuges by common wall lizards: do thermal costs affect preferences for predator-free refuges?	897
Frank Rosell and Øyvind Steifetten Subspecies discrimination in the Scandinavian beaver (Castor fiber): combining behavioral and chemical evidence	902
T.E. Reimchen and N.F. Temple Hydrodynamic and phylogenetic aspects of the adipose fin in fishes	910
R.C. Kusch and D.P. Chivers The effects of crayfish predation on phenotypic and life-history variation in fathead minnows	917
D. Gallant, C.H. Bérubé, E. Tremblay, and L. Vasseur An extensive study of the foraging ecology of beavers (Castor canadensis) in relation to habitat quality	922
C.D. Rollo, M. Lai, K. Whitehead, M.L. Perreault, J. Lemon, and A.M. Chaudhry Thermoregulation of transgenic growth hormone mice	934
M.L. Perreault and C.D. Rollo Transgenic growth hormone mice exposed to lifetime constant illumination: gender-specific effects	950
John M. Ratcliffe, Hannah M. ter Hofstede, Rafa Avila-Flores, M. Brock Fenton, Gary F. McCracken, Stephania Biscardi, Jennifer Blasko, Erin Gillam, Jasmine Orprecio, and Genvieve Spanjer Conspecifics influence call design in the Brazilian free-tailed bat. Tadarida brasiliensis	966

Contents / Sommaire	C-5
Ann Göth and Christopher S. Evans Egg size predicts motor performance and postnatal weight gain of Australian Brush-turkey (Alectura lathami) hatchlings	972
Ann C. Andersen, S. Hourdez, B. Marie, D. Jollivet, F.H. Lallier, and M. Sibuet Escarpia southwardae sp. nov., a new species of vestimentiferan tubeworm (Annelida, Siboglinidae) from West African cold seeps	980
Ana G. Moreno and Maurizio G. Paoletti Andiorrhinus (Andiorrhinus) kuru sp. nov. (Oligochaeta: Glossoscolecidae), a giant earthworm as food resource for Makiritare Indians of the Alto Rio Padamo, Amazonas, Venezuela	1000
July / Juillet	
ARTICLES / ARTICLES	
Russell D. Dawson Does fresh vegetation protect avian nests from ectoparasites? An experiment with tree swallows	1005
Joël M. Durant, Jean-Paul Gendner, and Yves Handrich Should I brood or should I hunt: a female barn owl's dilemma	1011
Drew J. Hoysak, N. Robin Liley, and Eric B. Taylor Raffles, roles, and the outcome of sperm competition in sockeye salmon	1017
Michael M. Kasumovic and Maydianne C.B. Andrade Discrimination of airborne pheromones by mate-searching male western black widow spiders (<i>Latrodectus hesperus</i>): species- and population-specific responses	1027
Kimberley J. Mathot and Robert W. Elner Evidence for sexual partitioning of foraging mode in Western Sandpipers (<i>Calidris mauri</i>) during migration	1035
Willy Dabin, Gwénaël Beauplet, Enrique A. Crespo, and Christophe Guinet Age structure, growth, and demographic parameters in breeding-age female subantarctic fur seals, Arctocephalus tropicalis	1043
Juan José Luque-Larena, Pilar López, and Joaquim Gosálbez Spacing behavior and morphology predict promiscuous mating strategies in the rock-dwelling snow vole, <i>Chionomys nivalis</i>	1051
David A.S. Rosen and Andrew W. Trites Satiation and compensation for short-term changes in food quality and availability in young Steller sea lions (Eumetopias jubatus)	1061
Véronique Lesage, Mike O. Hammill, and Kit M. Kovacs Long-distance movements of harbour seals (<i>Phoca vitulina</i>) from a seasonally ice-covered area, the St. Lawrence River estuary, Canada	1070
Scott A. Petrie and Kevin H. Rogers Nutrient-reserve dynamics of semiarid-breeding White-faced Whistling Ducks: a north-temperate contrast	1082
Richard Shine, Benjamin Phillips, Heather Waye, Michael Lemaster, and Robert T. Mason Species-isolating mechanisms in a mating system with male mate choice (garter snakes, <i>Thamnophis</i> spp.)	1091
Iain J. Staniland and David Pond Variability in milk fatty acids: recreating a foraging trip to test dietary predictions in Antarctic fur seals	1099
Michael F. Proctor, Bruce N. McLellan, Curtis Strobeck, and Robert M.R. Barclay Gender-specific dispersal distances of grizzly bears estimated by genetic analysis	1108
Jill DeVito, Jesse M. Meik, Marina M. Gerson, and Daniel R. Formanowicz, Jr. Physiological tolerances of three sympatric riparian wolf spiders (Araneae: Lycosidae) correspond with microhabitat distributions	1119
L. Leann Kanda and Todd K. Fuller Demographic responses of Virginia opossums to limitation at their northern boundary	1126
Julian D. Olden, Aaron L. Hoffman, Jeremy B. Monroe, and N. LeRoy Poff Movement behaviour and dynamics of an aquatic insect in a stream benthic landscape	1135
J.L. Hicks, R.J. O'Hara Hines, J.F. Schreer, and M.O. Hammill Correlation of depth and heart rate in harbour seal pups	1147
Joseph E. Duchamp, Dale W. Sparks, and John O. Whitaker, Jr. Foraging-habitat selection by bats at an urban-rural interface: comparison between a successful and a less successful species	1157
Damien O. Joly and François Messier Testing hypotheses of bison population decline (1970–1999) in Wood Buffalo National Park: synergism between exotic disease and predation	1165
NOTE / NOTE	
S. Ponsard, MT. Bethenod, A. Bontemps, L. Pélozuelo, MC. Souqual, and D. Bourguet Carbon stable isotopes: a tool for studying the mating, oviposition, and spatial distribution of races of European corn borer, Ostrinia nubilalis, among host plants in the field	1177

ERRATUM / ERRATUM	1104
Erratum: Table of Contents	1186

August / Août

ARTICLES / ARTICLE	ES
--------------------	----

G.M. Kruzynski, A.P. Farrell, K.B. Tierney, S.M. Sanders, and I.K. Birtwell Gill morphometry and hematology of juvenile chinook salmon chronically exposed to treated (elemental chlorine-free) bleached kraft pulp mill effluent at low temperature to simulate winter exposure	1187
Kristin M. Kramer, Bruce S. Cushing, C. Sue Carter, Julie Wu, and Mary Ann Ottinger Sex and species differences in plasma oxytocin using an enzyme immunoassay	1194
Dave P. Onorato, Eric C. Hellgren, Ronald A. Van Den Bussche, and J. Raymond Skiles, Jr. Paternity and relatedness of American black bears recolonizing a desert montane island	1201
Roy D. Nagle, Clayton L. Lutz, and Andrew L. Pyle Overwintering in the nest by hatchling map turtles (Graptemys geographica)	1211
Kristine Kasparian and John S. Millar Effects of extra food on nestling growth and survival in red-backed voles (Clethrionomys gapperi)	1219
J.G. Eales, R. Devlin, D.A. Higgs, J.M. McLeese, J.D. Oakes, and J. Plohman Thyroid function in growth-hormone-transgenic coho salmon (<i>Oncorhynchus kisutch</i>)	1225
Signe M. Andersen, Christian Lydersen, Otto Grahl-Nielsen, and Kit M. Kovacs Autumn diet of harbour seals (<i>Phoca vitulina</i>) at Prins Karls Forland, Svalbard, assessed via scat and fatty-acid analyses	1230
M. Parisot, L. Nagle, E. Vallet, and M. Kreutzer Dominance-related foraging in female domesticated canaries under laboratory conditions	1246
Jeanne E. Young, Arthur Georges, J. Sean Doody, Peter B. West, and Rachael L. Alderman Pivotal range and thermosensitive period of the pig-nosed turtle, Carettochelys insculpta (Testudines: Carettochelydidae), from northern Australia	1251
Solange Kowalski, Thierry Aubin, and Jean-René Martin Courtship song in <i>Drosophila melanogaster</i> : a differential effect on male-female locomotor activity	1258
J. Boulanger, S. Himmer, and C. Swan Monitoring of grizzly bear population trends and demography using DNA mark-recapture methods in the Owikeno Lake area of British Columbia	1267
L. Figenschou, I. Folstad, and S. Liljedal Lek fidelity of male Arctic charr	1278
Peter Puchala Detrimental effects of larval blow flies (<i>Protocalliphora azurea</i>) on nestlings and breeding success of Tree Sparrows (<i>Passer montanus</i>)	1285
Michael W. Johnson, Patrick A. Nelson, and Terry A. Dick Structuring mechanisms of yellow perch (<i>Perca flavescens</i>) parasite communities: host age, diet, and local factors	1291
Michael C. James and N. Mrosovsky Body temperatures of leatherback turtles (<i>Dermochelys coriacea</i>) in temperate waters off Nova Scotia, Canada	1302
A.R. Martin and V.M.F. da Silva Number, seasonal movements, and residency characteristics of river dolphins in an Amazonian floodplain lake system	1307
Robert J. Fletcher, Jr. and Rolf R. Koford Consequences of rainfall variation for breeding wetland blackbirds	1316
Martim de França Silveira Ribeiro, Pedro Luiz Bernardo da Rocha, Lys Angela Favaroni Mendes, Steven Franklin Perry, and Elisabeth Spinelli de Oliveira Physiological effects of short-term water deprivation in the South American sigmodontine rice rat Oligoryzomys nigripes and water rat Nectomys squamipes within a phylogenetic context	1326
Tatsuo Oshida, Chaudhry M. Shafique, Sohail Barkati, Masatoshi Yasuda, Nor Azman Hussein, Hideki Endo, Hisashi Yanagawa, and Ryuichi Masuda Phylogenetic position of the small Kashmir flying squirrel, Hylopetes fimbriatus (≡ Eoglaucomys fimbriatus), in the subfamily Pteromyinae	1336
Jun J. Sato and Hitoshi Suzuki Phylogenetic relationships and divergence times of the genus <i>Tokudaia</i> within Murinae (Muridae; Rodentia) inferred from the nucleotide sequences encoding the Cytb gene, RAG 1, and IRBP	1343
Briana H. Witteveen, Janice M. Straley, Olga von Ziegesar, D. Steel, and C. Scott Baker Abundance and mtDNA differentiation of humpback whales (Megaptera novaeangliae) in the Shumagin Islands, Alaska	1352
Amanda K. Coakes and Hal Whitehead Social structure and mating system of sperm whales off northern Chile	1360
E. San Miguel, S. Monserrat, C. Fernández, R. Amaro, M. Hermida, P. Ondina, and C.R. Altaba Growth models and longevity of freshwater pearl mussels (<i>Margaritifera margaritifera</i>) in Spain	1370
Velmurugu Puvanendran, Karine Salies, Benjamin Laurel, and Joseph A. Brown Size-dependent foraging of larval Atlantic cod (Gadus morhua)	1380

September / Septembre

ARTI	01	EC	1	ADT	IOI	FC
ADII	UL	EO.	1	Anı	IU.	EJ.

ARTICLES / ARTICLES	
Sherrylynn Rowe and Jeffrey A. Hutchings The function of sound production by Atlantic cod as inferred from patterns of variation in drumming muscle mass	1391
Todd J. Underwood, Spencer G. Sealy, and Celia M. McLaren Experiments on egg discrimination in two North American corvids: further evidence for retention of egg ejection	1399
David D. Kitts, Minh Dieu Huynh, Chun Hu, and Andrew W. Trites Season variation in nutrient composition of Alaskan walleye pollock	1408
S.G. Gilliland, C.D. Ankney, and P.W. Hicklin Foraging ecology of Great Black-backed Gulls during brood-rearing in the Bay of Fundy, New Brunswick	1416
Matthew D. Shawkey, Reed Bowman, and Glen E. Woolfenden Why is brood reduction in Florida scrub-jays higher in suburban than in wildland habitats?	1427
James A. Stoeckel, Dianna K. Padilla, Daniel W. Schneider, and Chris R. Rehmann polymorpha larvae: spawning success, adult fecundity, and larval mortality patterns	1436
John S. Millar and Emily J. Herdman Climate change and the initiation of spring breeding by deer mice in the Kananaskis Valley, 1985–2003	1444
Zejun Zhang, Fuwen Wei, Ming Li, Baowei Zhang, Xuehua Liu, and Jinchu Hu Microhabitat separation during winter among sympatric giant pandas, red pandas, and tufted deer: the effects of diet, body size, and energy metabolism	1451
Aaron W. Reed, Glennis A. Kaufman, and Donald W. Kaufman Influence of fire, topography, and consumer abundance on seed predation in tallgrass prairie	1459
John A. Tsiouris, Ved P.S. Chauhan, Ashfaq M. Sheikh, Abha Chauhan, Mazhar Malik, and Michael R. Vaughan Similarities in acute phase protein response during hibernation in black bears and major depression in humans: a response to underlying metabolic depression?	1468
Matthew J. Parris, Alison Davis, and James P. Collins Single-host pathogen effects on mortality and behavioral responses to predators in salamanders (Urodela: Ambystomatidae)	1477
Judith Morales, Juan Moreno, Santiago Merino, Gustavo Tomás, Javier Martínez, and Laszlo Zsolt Garamszegi Associations between immune parameters, parasitism, and stress in breeding pied flycatcher (Ficedula hypoleuca) females	1484
Luís Miguel Rosalino, David White Macdonald, and Margarida Santos-Reis Spatial structure and land-cover use in a low-density Mediterranean population of Eurasian badgers	1493
J. Błoszyk, Z. Adamski, A. Napierała, and M. Dylewska Parthenogenesis as a life strategy among mites of the suborder Uropodina (Acari: Mesostigmata)	1503
Marcel J. Potvin, Rolf O. Peterson, and John A. Vucetich Wolf homesite attendance patterns	1512
A.P. Farrell, C.J. Kennedy, and A. Kolok Effects of wastewater from an oil-sand-refining operation on survival, hematology, gill histology, and swimming of fathead minnows	1519
J.U. Jepsen and C.J. Topping Modelling roe deer (<i>Capreolus capreolus</i>) in a gradient of forest fragmentation: behavioural plasticity and choice of cover	1528
NOTE / NOTE	
Robyn M. Underwood, Michael J. Lewis, and James F. Hare Reduced worker relatedness does not affect cooperation in honey bee colonies	1542
October / Octobre	
ARTICLES / ARTICLES	
David Drolet and John H. Himmelman Role of current and prey odour in the displacement behaviour of the sea star Asterias vulgaris	154
Michael C. Quist, Wayne A. Hubert, and Daniel J. Isaak Fish assemblage structure and relations with environmental conditions in a Rocky Mountain watershed	1554
Jan O. Bustnes and Kirill V. Galaktionov Evidence of a state-dependent trade-off between energy intake and parasite avoidance in Steller's eiders	1560
Olga V. Suárez, María Busch, and Fernando O. Kravetz Reproductive strategies in Akodon azarae (Rodentia, Muridae)	157
Josh Adams, John Y. Takekawa, and Harry R. Carter Stable foraging areas and variable chick diet in Cassin's auklets (Ptychoramphus aleuticus) off southern California	157

1578

Hong Yuan, Dingzhen Liu, Lixing Sun, Rongping Wei, Guiquan Zhang, and Ruyong Sun Anogenital gland secretions code for sex and age in the giant panda, Ailuropoda melanoleuca	1596
Bettina Zeis, Jana Maurer, Olaf Pinkhaus, Eva Bongartz, and Rüdiger J. Paul A swimming activity assay shows that the thermal tolerance of <i>Daphnia magna</i> is influenced by temperature acclimation	1605
C.G. McDonald, T.J. Haimberger, and C.W. Hawryshyn Wavelength-dependent waveform characteristics of tectal evoked potentials in rainbow trout	1614
J.T. Sterling and R.R. Ream At-sea behavior of juvenile male northern fur seals (Callorhinus ursinus)	1621
Eva Brännäs, Sara Jonsson, and Kurt Brännäs Density-dependent effects of prior residence and behavioural strategy on growth of stocked brown trout (<i>Salmo trutta</i>)	1638
Toolika Rastogi, Moira W. Brown, Brenna A. McLeod, Timothy R. Frasier, Robert Grenier, Stephen L. Cumbaa, Jeya Nadarajah, and Bradley N. White Genetic analysis of 16th-century whale bones prompts a revision of the impact of Basque whaling on right and bowhead whales in the western North Atlantic	1647
A. Baud, C. Cuoc, J. Grey, R. Chappaz, and V. Alekseev Seasonal variability in the gut ultrastructure of the parasitic copepod <i>Neoergasilus japonicus</i> (Copepoda, Poecilostomatoida)	1655
NOTES / NOTES	
Nancy G. Solomon, Brian Keane, Lana R. Knoch, and Paula J. Hogan Multiple paternity in socially monogamous prairie voles (<i>Microtus ochrogaster</i>)	1667
Gregory J. Sandland and Dennis J. Minchella Life-history plasticity in hosts (Lymnaea elodes) exposed to differing resources and parasitism	1672
November / Novembre	
ARTICLES / ARTICLES	
Lowell L. Getz, Joyce E. Hofmann, Betty McGuire, and Madan K. Oli Population dynamics of the northern short-tailed shrew, <i>Blarina brevicauda</i> : insights from a 25-year study	1679
Nils Warnock, John Y. Takekawa, and Mary Anne Bishop Migration and stopover strategies of individual Dunlin along the Pacific coast of North America	1687
Gunnar Gunnarsson, Johan Elmberg, Kjell Sjöberg, Hannu Pöysä, and Petri Nummi Why are there so many empty lakes? Food limits survival of mallard ducklings	1698
G.F. Ficetola, E. Padoa-Schioppa, A. Monti, R. Massa, F. De Bernardi, and L. Bottoni The importance of aquatic and terrestrial habitat for the European pond turtle (<i>Emys orbicularis</i>): implications for conservation planning and management	1704
A. Oppliger, M.S. Giorgi, A. Conelli, M. Nembrini, and H.B. John-Alder Effect of testosterone on immunocompetence, parasite load, and metabolism in the common wall lizard (<i>Podarcis muralis</i>)	1713
Jim R. Herbers, Robert Serrouya, and Katherine A. Maxcy Effects of elevation and forest cover on winter birds in mature forest ecosystems of southern British Columbia	1720
David C. Heins, Britt Ulinski, Jill Johnson, and John A. Baker Effect of the cestode macroparasite Schistocephalus pungitii on the reproductive success of ninespine stickleback, Pungitius pungitius	1731
Vilis O. Nams and Maryse Bourgeois Fractal analysis measures habitat use at different spatial scales: an example with American marten	1738
S. Piraino, D. De Vito, J. Schmich, J. Bouillon, and F. Boero Reverse development in Cnidaria	1748
K.K. Hastings, K.J. Frost, M.A. Simpkins, G.W. Pendleton, U.G. Swain, and R.J. Small Regional differences in diving behavior of harbor seals in the Gulf of Alaska	1755
Daniel F. Mazerolle and Keith A. Hobson Territory size and overlap in male Ovenbirds: contrasting a fragmented and contiguous boreal forest	1774
Tonya Wimmer and Hal Whitehead Movements and distribution of northern bottlenose whales, <i>Hyperoodon ampullatus</i> , on the Scotian Slope and in adjacent waters	1782
Mark D. Cooperman, J. Michael Reed, and L. Michael Romero The effects of terrestrial and breeding densities on corticosterone and testosterone levels in spotted salamanders, Ambystoma maculatum	1795
Suzanne Prange and Stanley D. Gehrt Changes in mesopredator-community structure in response to urbanization	180
Magella Guillemette, Anthony J. Woakes, Viviane Henaux, Jean-Marc Grandbois, and Patrick J. Butler The effect of depth on the diving behaviour of common eiders	181

Contents / Sommaire	C-9
NOTES / NOTES	
Ronald E. Kirby, Glen A. Sargeant, and Dave Shutler Haldane's rule and American black duck × mallard hybridization	1827
Nathalie Tessier, Sarah Noël, and François-Joseph Lapointe A new method to discriminate the deer mouse (Peromyscus maniculatus) from the white-footed mouse (Peromyscus leucopus) using species-specific primers in multiplex PCR	1832
December / Décembre	
ARTICLES / ARTICLES	
Jan F. Kamler, Warren B. Ballard, Eric M. Gese, Robert L. Harrison, and Seija M. Karki Dispersal characteristics of swift foxes	1837
Anna L. Birmingham, Shelley E. Hoover, Mark L. Winston, and Ron C. Ydenberg Drifting bumble bee (Hymenoptera Apidae) workers in commercial greenhouses may be social parasites	1843
Samantha Stoffberg and David S. Jacobs The influence of wing morphology and echolocation on the gleaning ability of the insectivorous bat <i>Myotis tricolor</i>	1854
Jonas Dahl, Johan Dannewitz, Lars Karlsson, Erik Petersson, Anna Löf, and Bjarne Ragnarsson The timing of spawning migration: implications of environmental variation, life history, and sex	1864
F.E. Maciel, C.E. Rosa, E.A. Santos, J.M. Monserrat, and L.E.M. Nery Daily variations in oxygen consumption, antioxidant defenses, and lipid peroxidation in the gills and hepatopancreas of an estuarine crab	1871
Stephanie M. Carlson, Harry B. Rich, Jr., and Thomas P. Quinn Reproductive life-span and sources of mortality for alternative male life-history strategies in sockeye salmon, <i>Oncorhynchus nerka</i>	1878
M.E. Palmer and A. Ricciardi Physical factors affecting the relative abundance of native and invasive amphipods in the St. Lawrence River	1886
Maria Ogielska, Piotr Kierzkowski, and Mariusz Rybacki DNA content and genome composition of diploid and triploid water frogs belonging to the Rana esculenta complex (Amphibia, Anura)	1894
R.H. Gooding, P. Solano, and S. Ravel X-chromosome mapping experiments suggest occurrence of cryptic species in the tsetse fly Glossina palpalis palpalis	1902
Sue Lewis, Silvano Benvenuti, Francis Daunt, Sarah Wanless, Luigi Dall'Antonia, Paolo Luschi, David A. Elston, Keith C. Hamer, and Thomas N. Sherratt Partitioning of diving effort in foraging trips of northern gannets	1910
Alejandro Moyaho, Constantino Macías Garcia, and Edgar Ávila-Luna Mate choice and visibility in the expression of sexually dimorphic trait in a goodeid fish (Xenotoca variatus)	a 1917
Francesca Gherardi and William H. Daniels Agonism and shelter competition between invasive and indigenous crayfish species	1923
Asha M. Samuel and Graham A.J. Worthy Variability in fatty acid composition of bottlenose dolphin (<i>Tursiops truncatus</i>) blubber as a function of body site, season, and reproductive state	1933
Michelle L. Smith Edge effects on nest predators in two forested landscapes	1943
Jeffrey H.R. Goddard Developmental mode in benthic opisthobranch molluses from the northeast Pacific Ocean: feeding in a sea of plenty	1954
NOTES / NOTES	
B.H. King and J.A. D'Souza Effects of constrained females on offspring sex ratios of <i>Nasonia vitripennis</i> in relation to local mate competition theory	1969

B.H. King and J.A. D'Souza local mate competition theor		on offspring sex ratios of Nasonia vitripennis in relation to	1969
Gabriele Schino, Francesca R	. D'Amato, and Alfonso Troisi	Maternal aggression in lactating female Japanese macaques:	

Gabriele Schino, Francesca R. D'Amato, and Alfonso Troisi	Maternal aggression in lactating female Japanese macaques:	
time course and interindividual variation		1975

Author Index for Volume 82 / Index des auteurs pour le volume 82	AI-1
Contents for Volume 82 / Sommaire pour le volume 82	C-1